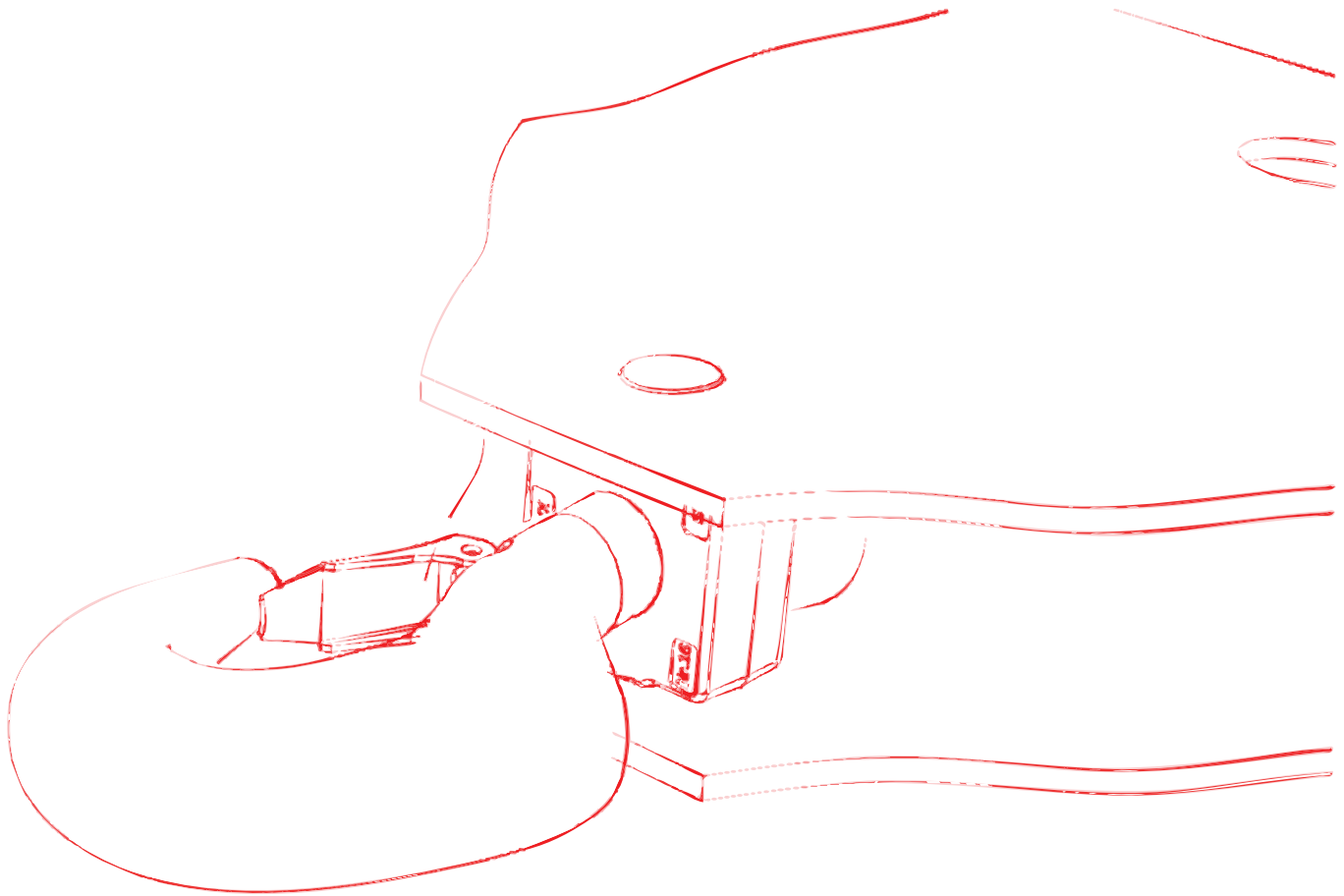


Slewing tower crane

WOLFF 6031.8 clear

Technical information



English

English



Published by

WOLFFKRAN GmbH

Austraße 72

74076 Heilbronn

Germany

Phone +49 7131 9815 0

Fax +49 7131 9815 355

www.wolffkran.com

info@wolffkran.de

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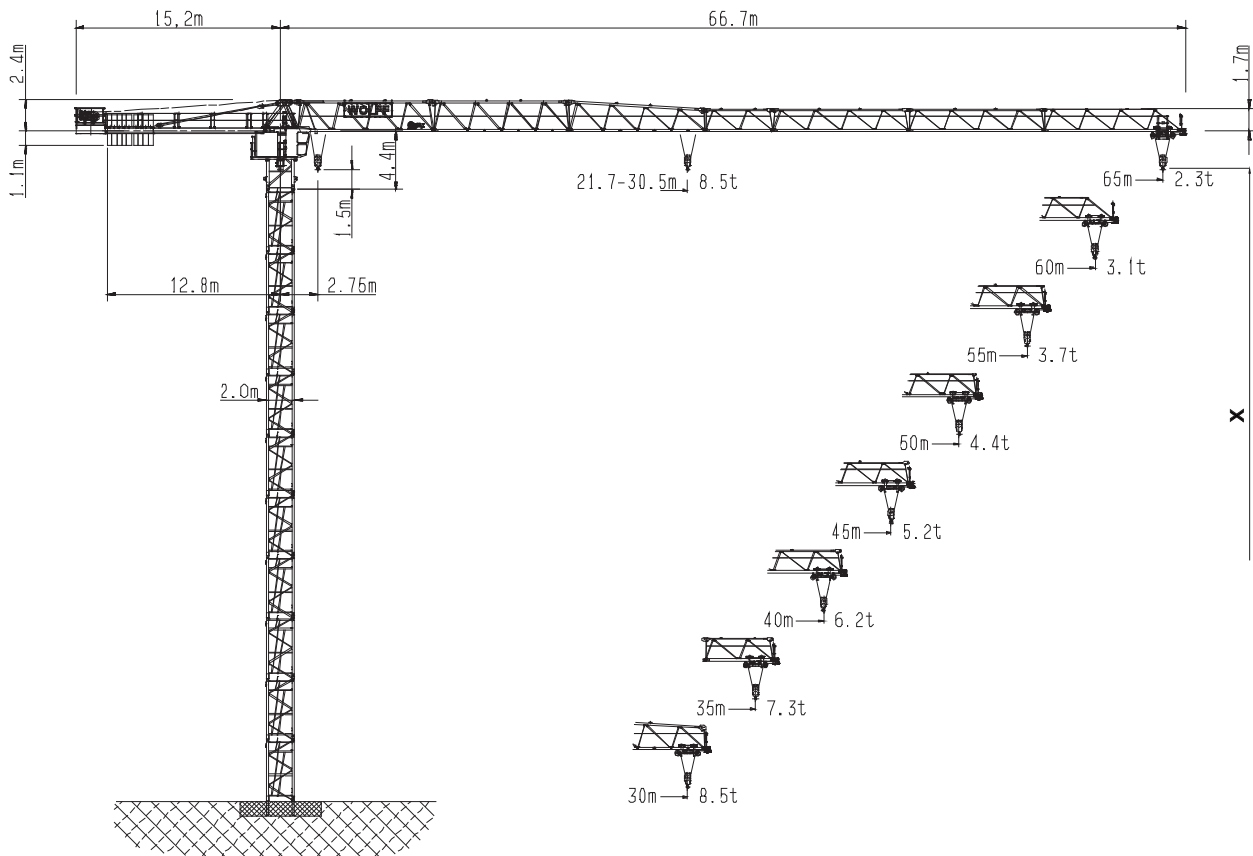
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1 Schedule drawing

1.1 Schedule drawing WOLFF 6031.8clear




[X] max. hook height above ground

Data WOLFF 6031.8clear


Item	Data
Crane type	BGL GROUP C.0.10.0224
Design	Overhead travelling crane with top slewing trolley jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN
Payload torque	max. 2592 kNm
Hoist winch	Hw 845FU/ Hw 875FU

2 Load carrying capacities

2 Load carrying capacities

	<h1>NOTICE</h1>
	<p>WOLFF-Boost</p> <p>With the WOLFF-Boost function, the load is allowed to exceed the load torque range specified for the lifting capacities by up to 10%. This is, however, subject to the restriction that hoisting gear and trolley drive (trolley crane) respectively hoisting gear and derricking gear (luffing crane) must only be moved alternately.</p>

2.1 Load capacity tables WOLFF 6031.8 clear (8.5 t)

 8.5 t		Operating radius [m]	25	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60	62.5	65	L-CC [t]	
JL [m]	65	2.75- 21.7	7.3	5.9	5.4	5.0	4.6	4.2	3.9	3.7	3.4	3.2	3.0	2.9	2.7	2.6	2.4	2.3		
	62.5	2.75- 23.5	8.0	6.5	5.9	5.5	5.0	4.7	4.3	4.1	3.8	3.6	3.4	3.2	3.0	2.8	2.7			
	60	2.75- 25.2	8.5	7.0	6.4	5.9	5.4	5.1	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.1				
	57.5	2.75- 26.0	8.5	7.3	6.6	6.1	5.6	5.2	4.9	4.6	4.3	4.0	3.8	3.6	3.4					
	55	2.75- 26.6	8.5	7.5	6.8	6.3	5.8	5.4	5.0	4.7	4.4	4.2	3.9	3.7						
	52.5	2.75- 27.1	8.5	7.6	7.0	6.4	5.9	5.5	5.1	4.8	4.5	4.2	4.0							
	50	2.75- 28.0	8.5	7.9	7.2	6.6	6.1	5.7	5.3	5.0	4.7	4.4								
	47.5	2.75- 28.6	8.5	8.1	7.4	6.8	6.3	5.9	5.5	5.1	4.8									
	45	2.75- 29.0	8.5	8.2	7.5	6.9	6.4	6.0	5.6	5.2										
	42.5	2.75- 29.7	8.5	8.4	7.7	7.1	6.6	6.1	5.7											
	40	2.75- 30.1	8.5	8.5	7.8	7.2	6.7	6.2												
	37.5	2.75- 30.2	8.5	8.5	7.9	7.2	6.7													
	35	2.75- 30.5	8.5	8.5	7.9	7.3														
	32.5	2.75- 30.4	8.5	8.5	7.9															
30	2.75- 30.0	8.5	8.5																	
JL			Jib length																	
LCC			Load carrying capacity																	




The load carrying capacity is related to a hook range of 42.0 m. Hook ranges greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (2 fall operation = 2.5 kg per meter of the hook range).

2 Load carrying capacities

2.2 Table of load carrying capacities (kg) in meter intervals, WOLFF 6031.8 clear (8.5 t, 2 fall operation)

Operating radius [m]	Jib length														
	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60	62.5	65
22	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8360
23	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	7960
24	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8310	7600
25	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	7950	7260
26	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8490	8200	7610	6950
27	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8370	8140	7870	7300	6660
28	8500	8500	8500	8500	8500	8500	8500	8500	8490	8200	8040	7830	7560	7010	6400
29	8500	8500	8500	8500	8500	8500	8500	8370	8170	7890	7730	7530	7270	6740	6150
30	8500	8500	8500	8500	8500	8410	8200	8070	7870	7600	7450	7250	7000	6490	5920
31		8320	8350	8270	8230	8110	7910	7780	7590	7330	7180	6990	6750	6260	5700
32		8040	8060	7990	7950	7830	7640	7510	7330	7080	6930	6750	6510	6040	5500
32.5		7900	7920	7850	7820	7700	7510	7380	7200	6950	6820	6630	6400	5930	5410
33			7790	7720	7680	7570	7380	7260	7080	6840	6700	6520	6290	5830	5300
34			7540	7470	7440	7330	7140	7020	6850	6610	6480	6300	6080	5630	5130
35			7300	7240	7200	7090	6910	6800	6630	6400	6270	6100	5890	5450	4960
36				7010	6980	6870	6700	6590	6420	6200	6080	5910	5700	5280	4800
37				6800	6770	6670	6500	6390	6230	6010	5890	5730	5520	5110	4650
37.5				6700	6670	6570	6400	6290	6130	5920	5800	5640	5440	5030	4570
38					6570	6470	6310	6200	6040	5830	5710	5560	5360	4960	4500
39					6380	6280	6120	6020	5870	5660	5550	5390	5200	4810	4370
40					6200	6110	5950	5850	5700	5500	5390	5240	5050	4670	4240
41						5940	5790	5690	5540	5350	5240	5090	4910	4540	4110
42						5780	5630	5530	5390	5200	5090	4950	4770	4410	4000
42.5						5700	5550	5460	5320	5130	5020	4880	4710	4350	3940
43							5480	5390	5250	5060	4960	4820	4640	4290	3890
44							5340	5250	5110	4930	4830	4690	4520	4170	3780
45								5200	5110	4980	4800	4700	4570	4400	4060
46								4980	4850	4680	4580	4450	4290	3960	3580
47								4860	4730	4560	4470	4340	4180	3850	3490
47.5								4800	4670	4510	4410	4280	4130	3810	3440
48									4620	4450	4360	4230	4080	3760	3400
49									4510	4340	4250	4130	3980	3660	3310
50									4400	4240	4150	4030	3880	3580	3230
51										4140	4050	3940	3790	3490	3150
52										4050	3960	3840	3700	3410	3080
52.5										4000	3910	3800	3660	3370	3040
53											3870	3760	3620	3330	3000
54											3780	3670	3530	3250	2930
55											3700	3590	3450	3180	2860
56												3510	3380	3110	2800
57												3440	3310	3040	2740
57.5												3400	3270	3000	2700
58													3230	2970	2670
59														3170	2910
60														3100	2850
61															2560
62															2790
62															2500
62.5															2730
63															2450
64															2400
64															2350
65															2300

3 Tower combinations

	<p style="text-align: center;">! DANGER</p> <p>Usage of incorrect tower combinations. The slewing tower crane may overturn.</p> <ol style="list-style-type: none">1) Use the specified tower combinations.2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.
	<p style="text-align: center;">NOTICE</p> <p>All tower combinations apply to free standing slewing tower cranes without climbing gear.</p>
	<p style="text-align: center;">NOTICE</p> <p>For tower combination with tower element TV 25 and UV 25 please contact WOLFFKRAN.</p>

3 Tower combinations

3.1 Tower combinations on foundation (slewing section with UV 20 / TV 20 - connection)

Jib length	30 m – 65 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	TV 20.4	
2	9.0 m	UV 20.4	UV 20.4	TV 20.4	
3	13.5 m	UV 20.4	UV 20.4	TV 20.4	
4	18.0 m	UV 20.4	UV 20.4	TV 20.4	
5	22.5 m	UV 20.4	UV 20.4	TV 20.4	
6	27.0 m	UV 20.4	UV 20.4	TV 20.4	
7	31.5 m	UV 20.4	UV 20.4	TV 20.4	
8	36.0 m	UV 20.4	UV 20.4	TV 20.4	
9	40.5 m	UV 20.4	UV 20.4	TV 20.4	
10	45.0 m	UV 20.4	UV 20.4	TV 20.4	
11	49.5 m	UV 20.4	TVA 20.4	TV 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m		TV 20.4	TV 20.4	
14	63.0 m		TV 20.4	TV 20.4	
15	67.5 m		TV 20.4	TV 20.4	
Foundation anchors		FUA 120 type C-120	FUA 140 type D-140	FUA 140 type D-140	
Tower height [m]		49.5	67.5	67.5	
Hook height double reeving [m]		51.0	69.0	69.0	
Wind category		C25			

Jib length	30 m – 65 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	TVA 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
17	73.0 m	TV 23		
Foundation anchors		FUA 140 type D-140		
Tower height [m]		73.0		
Hook height double reeving [m]		74.5		
Wind category	C25			

3 Tower combinations

Jib length	30 m – 65 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	TVA 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
17	73.0 m	HTA 23		
18	77.5 m	HT 23		
19	82.0 m	HT 23		
20	86.5 m	HT 23		
Foundation anchors		FUA 160 G		
Tower height [m]		86.5		
Hook height double reeving [m]		88.0		
Wind category			C25	

Jib length	30 m – 65 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	TVA 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	59.5 m	VR 2023		
15	64.0 m	TV 23		
16	68.5 m	HTA 23		
17	73.0 m	HT 23		
18	77.5 m	HT 23		
19	82.0 m	HT 23		
20	93.3 m	BT 23		
Foundation anchors		FUA 210 G		
Tower height [m]		93.3		
Hook height double reeving [m]		94.8		
Wind category			C25	

3 Tower combinations

Jib length	30 m – 65 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	TVA 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	59.5 m	VR 2023		
15	64.0 m	TV 23		
16	68.5 m	HTA 23		
17	73.0 m	HT 23		
18	77.5 m	HT 23		
19	78.7 m	VR 23/25-29		
20	83.2 m	UV 29		
21	87.7 m	UV 29		
22	92.2 m	UV 29		
23	102.2 m	BT 29		
Foundation anchors		FUA BT 29		
Tower height [m]		102.2		
Hook height double reeving [m]		103.7		
Wind category	C25			

3.2 Tower combinations on cross frame (slewing section with UV 20 - connection)

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
8	36.0 m		UV 20.4	UV 20.4	UV 20.4
9	40.5 m		UV 20.4	UV 20.4	UV 20.4
10	45.0 m		UV 20.4	UV 20.4	UV 20.4
11	49.5 m		UV 20.4	TVA 20.4	TVA 20.4
12	54.0 m			TV 20.4	TV 20.4
13	58.5 m			TV 20.4	TV 20.4
14	63.0 m				TV 20.4
15	67.5 m				TV 20.4
Substructure		KRV 7-32/46	KR 10-46 KR 10-46/60	KR 10-46 KR 10-46/60	KRV 10-60
Corner distance [m x m]		4.6 x 4.6	4.6 x 4.6 6.0 x 6.0	4.6 x 4.6 6.0 x 6.0	5.0 x 5.0 6.0 x 6.0
Substructure height [m]		0.9	1.2	1.2	1.2
Tower height [m]		32.4	50.7	59.7	68.7
Hook height double reeving [m]		33.9	52.2	61.2	70.2
Wind category		C25			

3 Tower combinations

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	UV 20.4			
8	36.0 m	UV 20.4			
9	40.5 m	UV 20.4			
10	45.0 m	UV 20.4			
11	49.5 m	TVA 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	64.0 m	VR 2023			
16	68.5 m	TV 23			
17	73.0 m	TV 23			
Substructure		KRV 10-60			
Corner distance [m x m]		6.0 x 6.0			
Substructure height [m]		1.2			
Tower height [m]		74.2			
Hook height double reeving [m]		75.7			
Wind category			C25		

Jib length	30 m – 65 m			
Elements				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	TVA 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
Substructure		KR 12-60 KR 12-60/80		
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0		
Substructure height [m]		1.4		
Tower height [m]		68.9		
Hook height double reeving [m]		70.4		
Wind category	C25			

3 Tower combinations

Jib length	30 m – 65 m			
Elements				
1	4.5 m	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	UV 20.4	
8	36.0 m	UV 20.4	UV 20.4	
9	40.5 m	UV 20.4	UV 20.4	
10	45.0 m	UV 20.4	TVA 20.4	
11	49.5 m	TVA 20.4	TV 20.4	
12	54.0 m	TV 20.4	TV 20.4	
13	58.5 m	TV 20.4	TV 20.4	
14	63.0 m	TV 20.4	TV 20.4	
15	64.0 m	VR 2023	VR 2023	
16	68.5 m	TV 23	TV 23	
17	73.0 m	TV 23	HTA 23	
18	77.5 m	HTA 23	HT 23	
19	82.0 m	HT 23	HT 23	
20	86.5 m		HT 23	
Substructure		KR 12-60 KR 12-60/80	KR 16-80 KR 16-80/100	
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0	8.0 x 8.0 10.0 x 10.0	
Substructure height [m]		1.4	1.8	
Tower height [m]		83.4	88.3	
Hook height double reeving [m]		84.9	89.8	
Wind category	C25			

3 Tower combinations

3.3 Tower combinations on cross frame element (slewing section with UV 20 - connection)

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
8	36.0 m		UV 20.4	UV 20.4	UV 20.4
9	40.5 m			UV 20.4	UV 20.4
10	45.0 m			UV 20.4	UV 20.4
11	49.5 m			TVA 20.4	TVA 20.4
12	54.0 m				TV 20.4
Substructure		KRE 260.1	KRE 260.1	KRE 260.2	KRE 260.2
Corner distance [m x m]		5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0
Substructure height [m]		4.0	4.0	4.0	4.0
Tower height [m]		35.5	40.0	53.5	58.0
Hook height double reeving [m]		37.0	41.5	55.0	59.5
Wind category		C25			

Jib length	30 m – 65 m			
Elements				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	TVA 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TVÜ 20.4		
15	67.5 m	UVA 25		
Substructure		KRE 480		
Corner distance [m x m]		8.0 x 8.0		
Substructure height [m]		4.0		
Tower height [m]		71.5		
Hook height double reeving [m]		73.0		
Wind category			C25	

3 Tower combinations

3.4 Tower combinations on mobile cross frame (slewing section with UV 20 - connection)

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
8	36.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
9	40.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
10	45.0 m	UV 20.4	UV 20.4	TVA 20.4	TVA 20.4
11	49.5 m		TVA 20.4	TV 20.4	TV 20.4
12	54.0 m		TV 20.4	TV 20.4	TV 20.4
13	58.5 m			TV 20.4	TV 20.4
14	63.0 m			TV 20.4	TV 20.4
15	67.5 m			TV 20.4	TV 20.4
Substructure		KRF 10-46/60	KRF 10-46/60	KRF4 12-60/80	KRF6 12-60/80
Corner distance [m x m]		6.0 x 6.0	6.0 x 6.0	8.0 x 8.0	8.0 x 8.0
Substructure height [m]		2.0	2.0	2.5	2.9
Tower height [m]		47.0	56.0	70.0	70.4
Hook height double reeving [m]		48.5	57.5	71.5	71.9
Wind category		C25			

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	UV 20.4			
8	36.0 m	UV 20.4			
9	40.5 m	TVA 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	67.5 m	TV 20.4			
16	68.5 m	VR 2023			
17	73.0 m	TV 23			
18	77.5 m	HTA 23			
Substructure		KRF6 12-60/80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		80.4			
Hook height double reeving [m]		81.9			
Wind category			C25		

3 Tower combinations

Jib length	30 m – 65 m			
Elements				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	UV 20.4		
9	40.5 m	TVA 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
17	73.0 m	HTA 23		
18	77.5 m	HT 23		
19	82.0 m	HT 23		
20	86.5 m	HT 23		
Substructure		KRF 16-80/100		
Corner distance [m x m]		10.0 x 10.0		
Substructure height [m]		3.3		
Tower height [m]		89.8		
Hook height double reeving [m]		91.3		
Wind category	C25			

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	UV 20.4			
8	36.0 m	UV 20.4			
9	40.5 m	TVA 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	59.5 m	VR 2023			
15	64.0 m	TV 23			
16	68.5 m	TV 23			
17	73.0 m	HTA 23			
18	77.5 m	HT 23			
19	82.0 m	HT 23			
20	83.2 m	VR 23/25-29			
21	93.2 m	BT 29			
Substructure		KRF 16-80/100			
Corner distance [m x m]		10.0 x 10.0			
Substructure height [m]		3.3			
Tower height [m]		96.5			
Hook height double reeving [m]		98.0			
Wind category			C25		

3 Tower combinations



3.5 Tower combinations on undercarriage (slewing section with UV 20 - connection)

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m		UV 20.4	UV 20.4	UV 20.4
8	36.0 m			TVA 20.4	UV 20.4
9	40.5 m				TVA 20.4
Substructure		UW 260.1	UW 260.1	UW 260.2	UW 260.2
Corner distance [m x m]		5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0
Substructure height [m]		4.5	4.5	4.5	4.5
Tower height [m]		31.5	36.0	40.5	45.0
Hook height double reeving [m]		33.0	37.5	42.0	46.5
Wind category		C25			

Jib length	30 m – 65 m				
Elements					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	
8	36.0 m	UV 20.4	UV 20.4	UV 20.4	
9	40.5 m	UV 20.4	UV 20.4	UV 20.4	
10	45.0 m	UV 20.4	UV 20.4	UV 20.4	
11	49.5 m	TVA 20.4	TVA 20.4	TVA 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m			TV 20.4	
14	63.0 m			TVÜ 20.4	
15	67.5 m			UVA 25	
Substructure		UW 260.3	UW 260.3	UW 480	
Corner distance [m x m]		5.0 x 6.79	6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		4.5	4.5	5.0	
Tower height [m]		54.0	58.5	72.5	
Hook height double reeving [m]		55.5	60.0	74.0	
Wind category		C25			

4 Foundation loads / central ballast weights / corner loads in compliance with EN 14439 / EN 13001

4 Foundation loads / central ballast weights / corner loads in compliance with EN 14439 / EN 13001

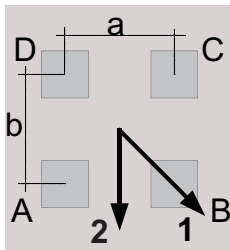
	<div style="background-color: red; color: white; text-align: center; padding: 5px;">⚠ DANGER</div> <p>Usage of incorrect tower combinations. The slewing tower crane may overturn.</p> <ol style="list-style-type: none"> 1) Use the specified tower combinations. 2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.
	<div style="background-color: #00a0e3; color: white; text-align: center; padding: 5px;">NOTICE</div> <p>If you need foundation loads for tower combination with tower element TV 25 and UV 25, please contact WOLFFKRAN to get an approved alternative setup.</p>

Jib positions

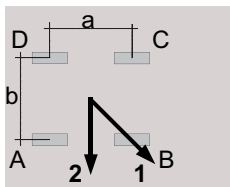
The corner loads are given for two jib positions with the maximum corner load resulting from jib position 1.

For square setup, the following equation is true: $a = b$

For rectangular setup, the following equation is true: $a > b$



Cross frame or cross frame element



Undercarriage


NOTICE! For undercarriage details, please refer to the relevant operating manual.

Wind load with crane out of service

The stability for stormy weather is calculated on the basis of wind region C (EN 13001-2). The reference wind speed for zone C is 28 m/s (10 m above ground, averaged over 10 minutes). As a basis, a recurrence interval of 25 years is used. As a basis, a recurrence interval of 25 years is used.

4 Foundation loads / central ballast weights / corner loads in compliance with EN 14439 / EN 13001

Please contact WOLFFKRAN for stability calculations in other wind regions.

	NOTICE
	Die 4-Strang Hakenhöhe gilt nur für den Kran 6031.12 <i>clear</i> im 4-Strangbetrieb.

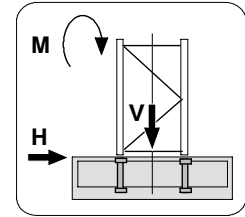
For information on the different substructures, refer to Section 5 of the Operating Manual.

4.1 Foundation loads jib 30 m - 65 m

Slewing section 6031 *clear* with 30 m – 65 m jib on foundation.
Slewing tower crane without climbing device.

Foundation load in compliance with EN 14439 / EN 13001 – typical loads

Includes all dynamical factors under consideration of second-order theory for stationary slewing tower cranes on concrete foundation in compliance with a tower combination without climbing device.


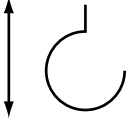
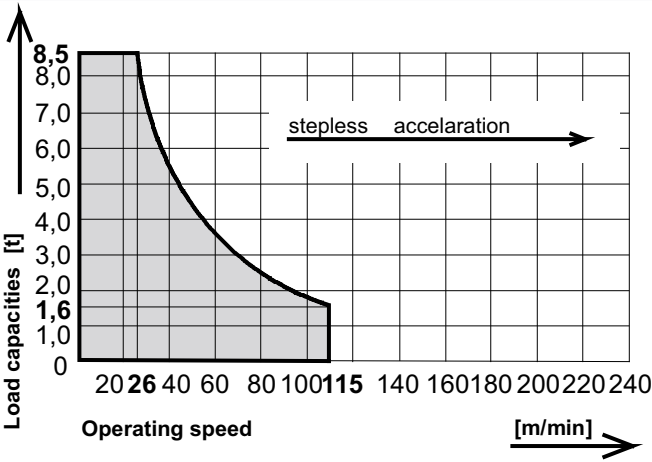
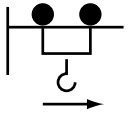
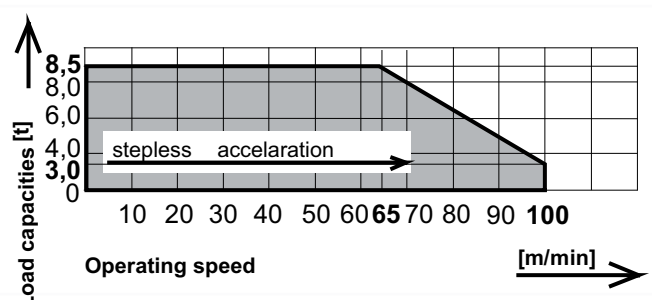

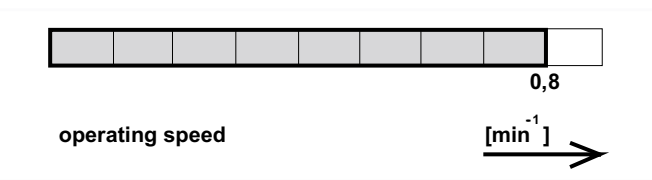


HH		Crane in service			Crane out of service			Assembly		
4	2	Slewing torque: 290 kNm			Wind category C25			M	V	H
STR	STR	M	V	H	M	V	H	M	V	H
[m]	[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
5.6	6.0	1800	639	19	1420	498	29	1870	396	6
10.1	10.5	1890	667	21	1560	527	36	1900	424	7
14.6	15.0	2000	695	23	1740	555	42	1940	452	8
19.1	19.5	2120	724	25	1950	583	48	1990	481	9
23.6	24.0	2250	752	27	2190	612	54	2040	509	10
28.1	28.5	2390	780	29	2460	640	60	2100	537	11
32.6	33.0	2560	809	31	2770	668	66	2170	565	12
37.1	37.5	2740	837	33	3120	696	73	2250	594	13
41.6	42.0	2930	865	34	3500	725	79	2330	622	15
46.1	46.5	3140	894	36	3920	753	85	2430	650	16
50.6	51.0	3380	922	38	4380	781	91	2540	680	17
55.1	55.5	3640	950	40	5190	953	134	2650	707	18
59.6	60.0	3920	978	42	6110	981	145	2780	735	19
64.1	64.5	4240	1007	44	7140	1010	155	2920	763	20
68.6	69.0	4590	1035	46	8280	1038	165	3080	792	21
69.6	70.0	4500	961	43	7470	964	150	3010	718	19
74.1	74.5	4820	992	45	8550	994	161	3150	748	21
78.6	79.0	5090	1056	48	9650	1058	175	3270	812	22
83.1	83.5	5440	1095	50	10900	1098	186	3430	852	23
87.6	88.0	5810	1134	52	12280	1137	198	3590	891	25
89.9	90.3	5900	1180	54	12830	1183	206	3640	937	26
94.4	94.8	6320	1220	56	14390	1223	218	3820	976	27
Tower combination with base tower element BT 29										
98.8	99.2	6550	1286	59	15620	1289	234	3940	1043	29
103.3	103.7	6970	1332	62	17330	1335	248	4130	1089	30


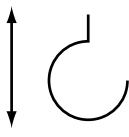
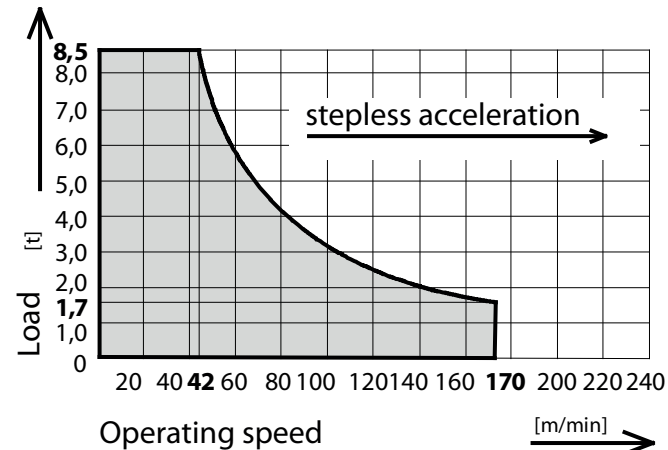
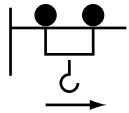
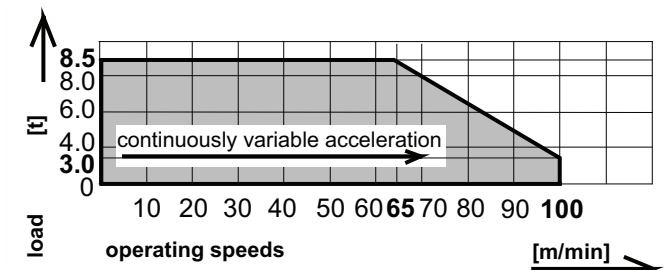

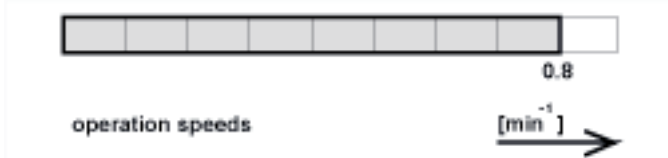
Caption

HH	Hook height	V:	Vertical load	STR:	Number of falls
H:	Horizontal load	M:	Torque		

5 Operating speeds

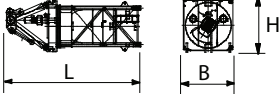
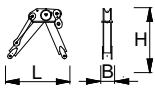
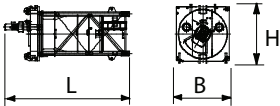
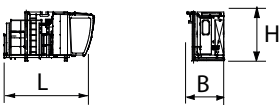
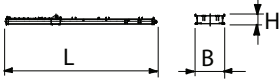
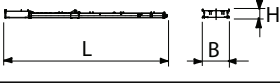
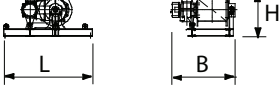
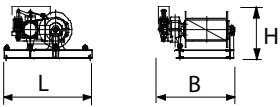

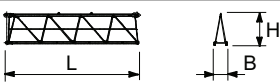
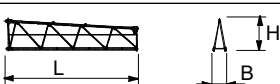
Drive unit [type]	Operating speed Carrying load	Hook travel distance max. [m]	Power [kW]	Total connected load [kVA]
Hw845FU	Lifting 	190	45	67.0 Total connected load at coincidence factor of 0.7
				
KW	Trolley movement		7.5	
				
SG	Slewing		2x6.0	
				

5 Operating speeds



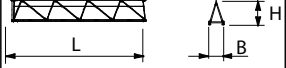
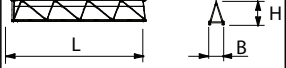
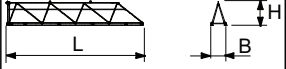




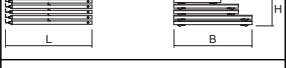

Drive unit [type]	Operating speed Carrying load		Hook travel distance max. [m]	Power [kW]	Total connected load [kVA]
Hw875FU	Lifting		460	75	95.0 Total connected load at coincidence factor of 0.7
					
KW	Trolley movement			7.5	
					
SG	Slewing			2x6.0	
					

6 Package list

6.1 Package list 6031.8

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m ³]
1	Tower head section, complete with slewing frame, ball race bearing, slewing gear and slip ring system		6.67	2.30	2.54	9370	38.97
		with UV 20 / TV 20 lower part of tower head section					
	Tower head section upper part with stay parts		2.33	0.58	2.81	1300	3.80
	Tower head section lower part with slewing frame, ball race bearing, slewing gear and slip ring system		5.77	2.30	2.54	8070	33.71
1	Driver's cab with driver's cab suspension		4.82	1.96	2.55	2580	24.10
1	Counterjib with stay parts and standard railings		14.04	2.30	0.80	6840	25.84
	Counterjib without ballast carrier and without loose items		11.87	2.30	0.70	5280	19.11
1	Hoist winch platform Hw845FU (incl. 200 m hoisting rope)		2.17	1.57	1.04	2140	3.54
1	Hoist winch platform Hw875FU (incl. 200 m hoisting rope)		2.17	1.88	1.18	2500	4.82
1	Jib element 1 with traverse gear		10.34	1.20	2.38	3265	29.53
1	Jib element 2		10.32	1.20	2.36	2150	29.23
1	Jib element 3		10.29	1.20	2.34	1600	28.90

6 Package list

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m ³]
1	Jib element 4		5.27	1.20	1.74	775	11.00
1	Jib element 5		2.77	1.20	1.74	470	5.78
1	Jib element 6		10.25	1.20	1.72	1365	21.16
1	Jib element 7		10.07	1.20	1.70	1045	20.75
1	Jib element 8		10.17	1.20	1.70	800	20.75
1	Rope swivel cross-beam		0.99	1.09	0.45	126	0.49
1	Trolley LK 8		1.87	1.42	0.95	295	2.52
1	Maintenance cage		0.75	0.58	1.69	55	0.74
1	Hook block U6 (8)		0.50	0.22	1.11	350	0.12
1	Standard railings		2.60	1.10	0.65	300	1.86
1	Box (small parts)		0.63	0.50	0.38	100	1.12

7 Assembly weights

7.1 Counterweight blocks

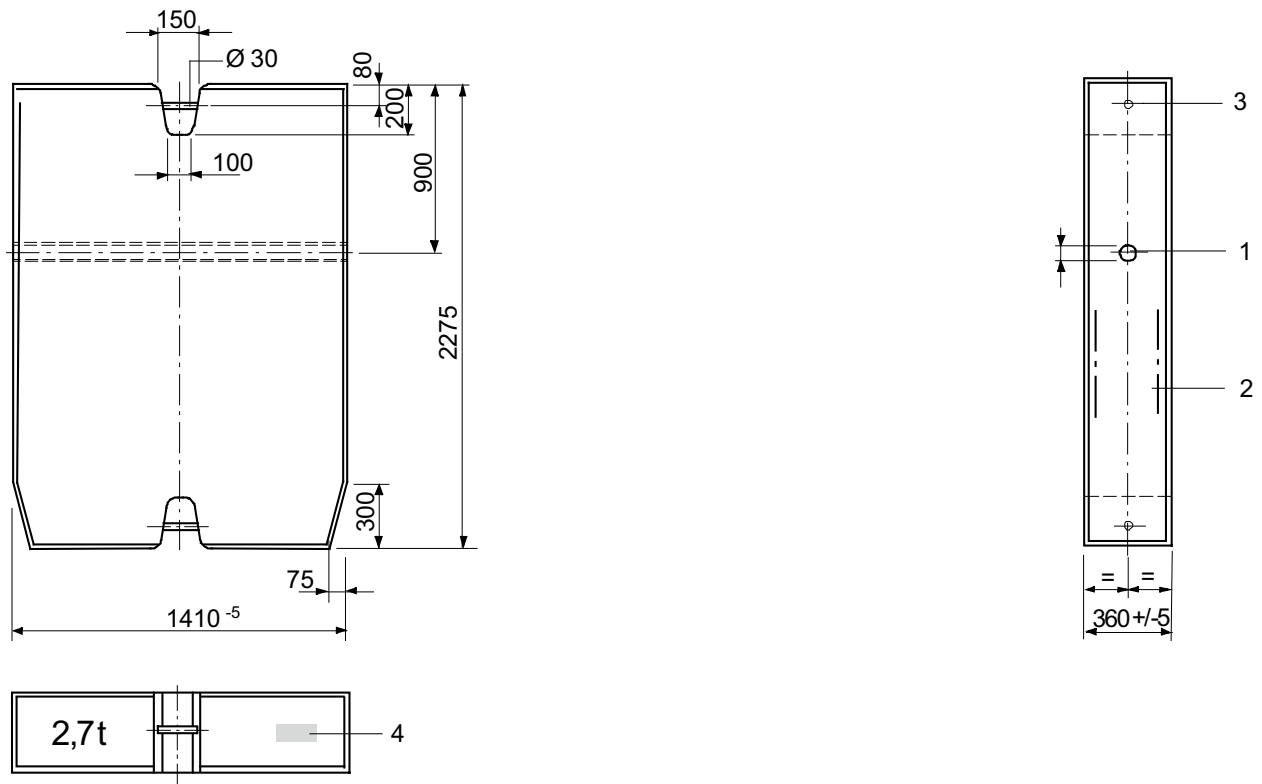


NOTICE

The described diagrams of the concrete counterweights and central ballast blocks only show sketches. Have them issue the reinforcement charts by experts.

7 Assembly weights

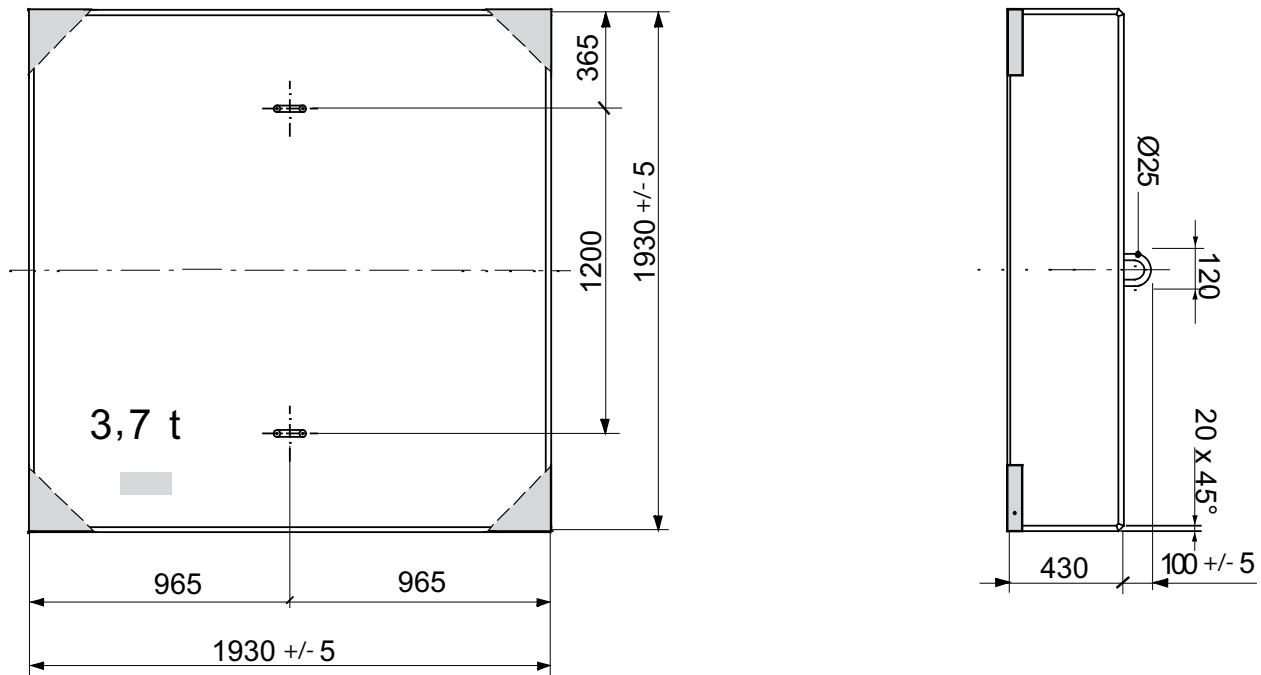
7.1.1 Counterweight block, 2.7 t



Data counterweight block 2.7 t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	30021887
1	Connection for stub shaft (Ø 40x 215 Item no.: 30024871)
2	Structural steel reinforcement
3	Suspension
4	Component identifier

7.1.2 Counterweight block, 3.7 t



Data counterweight block 3.7 t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	962-2-029759
1	Corner guard
2	Suspension
3	Component identifier

7 Assembly weights

7.2 Total weight jib assembly

Trolley jib, complete: Trolley, trolley ropes, hook block, standard railings and rope swivel crossbeam

Jib length [m]	Weight [kg]	
	WOLFF 6031.8 clear	WOLFF 6031.12 clear
65.0	11800	12100
62.5	11500	11800
60.0	11000	11300
57.5	10900	11200
55.0	11000	11300
52.5	10700	11000
50.0	10200	10500
47.5	10100	10400
45.0	10000	10300
42.5	9700	10000
40.0	9200	9500
37.5	9100	9400
35.0	8600	8900
32.5	8300	8600
30.0	7800	8100

7.3 Assembly weight slewing section

Module	Crane parts	Weight [kg]	
Tower head section complete with brace plates and standard railings			9370
	▪ Tower head section upper part including brace plates	1300	
	▪ Tower head section lower part including slewing frame, ball race bearing, slewing gears, standard railings and slip ring system	8070	
Operator cabinet platform, complete			2580
	▪ Driver's cab including control cabinet, resistor and driver's cab suspension		
Counter jib with Hw845FU, complete			12575
	▪ Counterjib with brace plates, standard railings and ballast frame	6840	
	▪ Hoist winch platform Hw845FU	2035	
	▪ Concrete counterweight block 3.7 t (below hoist winch platform)	3700	
Counter jib with Hw875FU, complete			12915
	▪ Counterjib with brace plates, standard railings and ballast frame	6840	
	▪ Hoist winch platform Hw875FU	2375	
	▪ Concrete counterweight block 3.7 t (below hoist winch platform)	3700	

7 Assembly weights

7.4 Assembly weight cross frame

Module	Crane parts	Weight [kg]	
Cross frame KR 6-40 (without accessories)			
(4.0 m x 4.0 m)	▪ 4 bolted spigots AZ 93.4	200	3 450
	▪ 4 bolted spigots AZ 93.4 E 15	240	
Cross frame KR 7-32 (without accessories)			
(3.2 m x 3.2 m)	▪ 4 bolted spigots AZ 85 E 20.5	210	3 350
	▪ 4 bolted spigots AZ 93.4 E 15	240	
	▪ 4 bolted spigots AZ 120 M	292	
Cross frame KR 7 - 32 (without accessories)			
(3.2 m x 3.2 m)	▪ 4 bolted spigots AZ 85 E 20.5	210	3 680
	▪ 4 bolted spigots AZ 93.4 E 15	240	
	▪ 4 bolted spigots AZ 120 M	292	
Cross frame KR 7 - 32/46 (without accessories)			
(4.6 m x 4.6 m)	▪ 4 bolted spigots AZ 85 E 20.5	210	5 090
	▪ 4 bolted spigots AZ 93.4 E 15	240	
	▪ 4 bolted spigots AZ 120 M	292	
Cross frame KR 8- 46 (without accessories)			
(4.6 m x 4.6 m)	▪ 4 bolted spigots AZ 85 E 20.5	210	5 250
	▪ 4 bolted spigots AZ 93.4 E 15	240	
	▪ 4 bolted spigots AZ 120 M	292	
Cross frame KR 10- 46 (without accessories)			
(4.6 m x 4.6 m)	▪ 4 bolted spigots AZR 120 E 15.5	552	7 020
	▪ 4 bolted spigots AZ 140 M	698	
Cross frame KR 16 - 46/ 60 (without accessories)			
(6.0 m x 6.0 m)	▪ 4 bolted spigots AZR 120 E 15.5	552	8 875
	▪ 4 bolted spigots AZ 140 M	698	
Cross frame KR HEB 700 - 4 (without accessories)			
(4.0 m x 4.0 m)	▪ 4 bolted spigots AZ 93.4	240	4 450
Cross frame KR HEB 700 - 5 (without accessories)			
(5.0 m x 5.0 m)	▪ 4 bolted spigots AZ 93.4	240	5 410
Cross frame KR HEB 800 - 5 (without accessories)			
(5.0 m x 5.0 m)	▪ 4 bolted spigots AZ 120 M	292	5 860
Cross frame KR HEB 800 - 6 (without accessories)			
(6.0 m x 6.0 m)	▪ 4 bolted spigots AZ 120 M	292	6 600
Supporting frame SR 150 (without accessories)			
(4.0 m x 4.0 m)	▪ 4 bolted spigots AZ 85 E 20.5	210	5 460

Module	Crane parts	Weight [kg]	
	▪ 4 bolted spigots AZ 93.4 E 15	240	
	▪ 4 bolted spigots AZ 120 M	292	
Cross frame KR 1000- 8 (without accessories)			14 630
(8 m x 8 m)	▪ 4 bolted spigots AZ 140 E	684	
	▪ 4 bolted spigots AZ 156 M	748	
Cross frame KR 16- 80 (without accessories)			21 450
(8 m x 8 m)	▪ 4 bolted spigots AZ 140 E KR 16-80	620	
	▪ 4 bolted spigots AZ 156 M KR 16-80	680	
	▪ 4 bolted spigots AZ 156S M KR 16-80	675	
Cross frame KR 16 - 80 / 100 (without accessories)			25 400
(10 m x 10 m)	▪ 4 bolted spigots AZ 140 E KR 16-80	620	
	▪ 4 bolted spigots AZ 156 M KR 16-80	680	
	▪ 4 bolted spigots AZ 156S M KR 16-80	675	

7 Assembly weights

7.5 Assembly weights traveling cross frame

Module	Crane parts	Weight [kg]	
Mobile cross frame KRF 10 – 46/60 complete			17500
(6.0 m x 6.0 m)	▪ Cross frame	7000	
	▪ Drive gear corners	2385	
	▪ Backing braces	1510	
	▪ Subframe	5645	
	▪ Platforms + ladders	510	
	▪ Control cabinet	130	
	▪ small items	320	
	▪ Set of bolted spigots AZ 120 E 15.5 KRF 10-46/60	605	
	▪ Set of bolted spigots AZR 140 M KRF 10-46/60	760	
Traveling cross frame KRF4 12-60/80 complete			32300
(8.0 m x 8.0 m)	▪ Cross frame	14170	
	▪ Backing braces	2875	
	▪ Drive gear corners	4560	
	▪ Subframe	9380	
	▪ Platforms and ladders	255	
	▪ Control cabinet	130	
	▪ small items	930	
	▪ Set of bolted spigots AZR 140 M KR 12-60/80	790	
	▪ Set of bolted spigots AZ 120 E 15,5 KR 12-60/80	730	
	▪ Set of bolted spigots AZ 140 E 15,5 KR 12-60/80	875	
	▪ Set of bolted spigots AZR 160 M KR 12-60/80	905	
	▪ Set of bolted spigots AZ 140 E 10 KR 12-60/80	790	
	▪ Set of bolted spigots AZR 156 M KR 12-60/80	845	
Traveling cross frame KRF6 12-60/80 complete			41200
(8.0 m x 8.0 m)	▪ Cross frame	14170	
	▪ Backing braces	2875	
	▪ Drive gear corners	4560	
	▪ Subframe	18270	
	▪ Platforms and ladders	255	
	▪ Control cabinet	130	
	▪ small items	940	
	▪ Set of bolted spigots AZR 140 M KR 12-60/80	790	

Module	Crane parts	Weight [kg]
	▪ Set of bolted spigots AZ 120 E 15,5 KR 12-60/80	730
	▪ Set of bolted spigots AZ 140 E 15,5 KR 12-60/80	875
	▪ Set of bolted spigots AZR 160 M KR 12-60/80	905
	▪ Set of bolted spigots AZ 140 E 10 KR 12-60/80	790
	▪ Set of bolted spigots AZR 156 M KR 12-60/80	845
Mobile cross frame KRF 16 – 80/100 complete		49530
(10.0 m x 10.0 m)	▪ Cross frame KR 16-80/100 with traversing gear corners	26980
	▪ Drives	19000
	▪ Backing braces	3450
	▪ small items	100
	▪ Set of bolted spigots AZ 140 E KR 16-80	620
	▪ Set of bolted spigots AZ 156 M KR 16-80	680
	▪ Set of bolted spigots AZ 156S M KR 16-80	675
	▪ Set of bolted spigots AZ 160 M KR 16-80	1135
	▪ Set of bolted spigots AZ 210 M KR 16-80	3015

7 Assembly weights

7.6 Assembly weight cross frame elements

Module	Crane parts	Weight [kg]	
Cross frame element KRE 138, complete			3 800
	▪ Cross frame platform with lifting beam, corner plates and transport locks	2 100	
	▪ Mast base with diagonal struts	1 700	
Cross frame element KRE 250 complete			5 750
	▪ Cross frame platform with hinged section, corner plates and transport locks	2 730	
	▪ Mast base with diagonal struts and tie rods	3 020	
Cross frame element KRE 260.1, complete			8 100
	▪ Cross frame platform with hinged section, corner plates and transport locks	4 320	
	▪ Mast base with diagonal struts and tie rods	3 780	
Cross frame element KRE 260.2, complete			10 900
	▪ Cross frame platform with hinged section, corner plates and transport locks	5 455	
	▪ Mast base with diagonal struts and tie rods	5 445	
Cross frame element KRE 480 complete			24 250
	▪ Mast base	7 100	
	▪ Hinged sections with corner plates	6 250	
	▪ Diagonal struts and ballast carrier	9 260	
	▪ Assembly platform, ladder, and small parts	1 640	

7.7 Assembly weight undercarriage

Module	Crane parts	Weight [kg]	
Bogie truck UW 138, complete			
	▪ Undercarriage platform with mounting device, spacers and subframes	3 970	
	▪ Mast base with diagonal struts	1 780	
Undercarriage UW 250, complete			
	▪ Undercarriage platform with hinged sections, subframes and transport locks	5 600	
	▪ Mast base with diagonal struts and tie rods	3 200	
Undercarriage UW 260.1, complete			
	▪ Undercarriage platform with hinged sections, subframes and transport locks	7 150	
	▪ Mast base with diagonal struts and tie rods	4 250	
Undercarriage UW 260.2, complete			
	▪ Undercarriage platform with hinged sections, subframes and transport locks	9 810	
	▪ Mast base with diagonal struts and tie rods	4 250	
Undercarriage UW 260.3, complete			
	▪ Undercarriage platform with hinged sections, subframes and transport locks	11 300	
	▪ Mast base with diagonal struts and tie rods	5 900	
Undercarriage UW 480, complete			
	▪ Mast base	7 100	
	▪ Hinged sections with mounting device and subframes	16 000	
	▪ Diagonal struts and ballast carrier	9 260	
	▪ Assembly platform, ladder, and small parts	1 640	

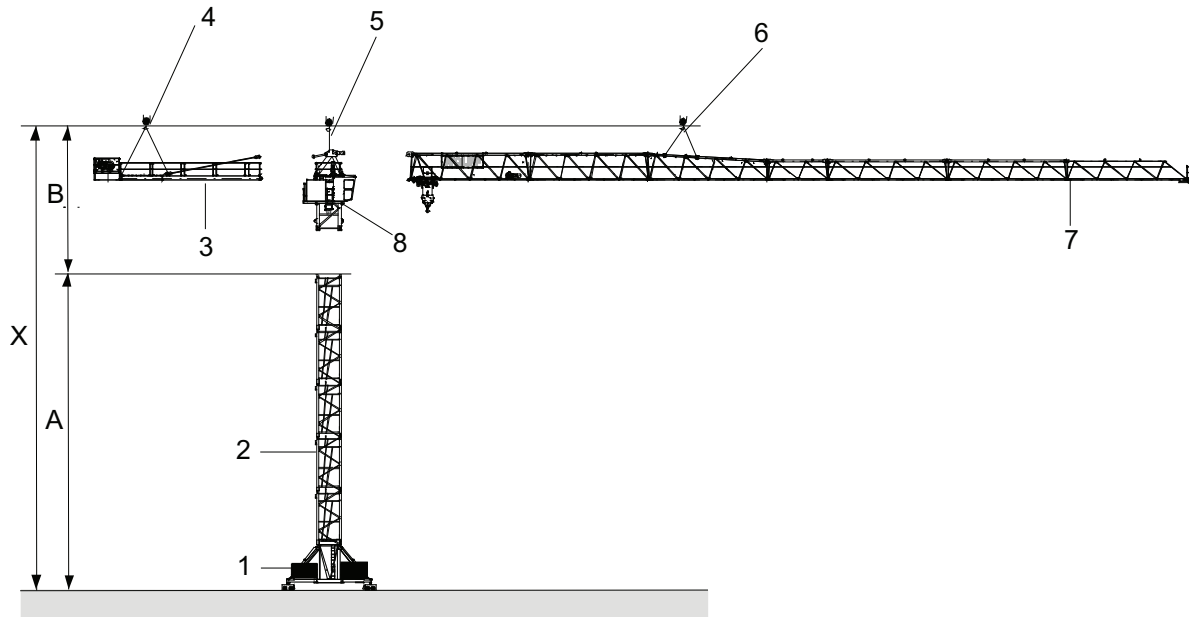
7 Assembly weights

7.8 Required hook height for mobile cranes

For information about the height of the WOLFF slewing tower crane, refer to Tower combinations [9].

NOTICE! During assembly, allowances must be made for level differences (mobile crane to base of the slewing tower crane).

Hook height above ground required for mobile cranes (X) = height of the WOLFF slewing tower crane (A) + clearance of 12 m (B).



Exemplary illustration


[A]	Height of the WOLFF slewing tower crane	[B]	Clearance 12 m
[X]	Hook height above ground required for the mobile crane		
1	Undercarriage	5	Single-point lifting tackle (2 m with shackle)
2	Tower element	6	4-fall attachment (4 m with shackle)
3	Counterjib, complete	7	Jib, complete
4	Four-point lifting tackle (with shackle)	8	Tower head section, complete


(see also):

- Tower combinations [9]

8 Assembly diagrams

8.1 Jib attachment diagram

	NOTICE
	For jib assembly, use a 4-fall attachment (4 m with shackle).

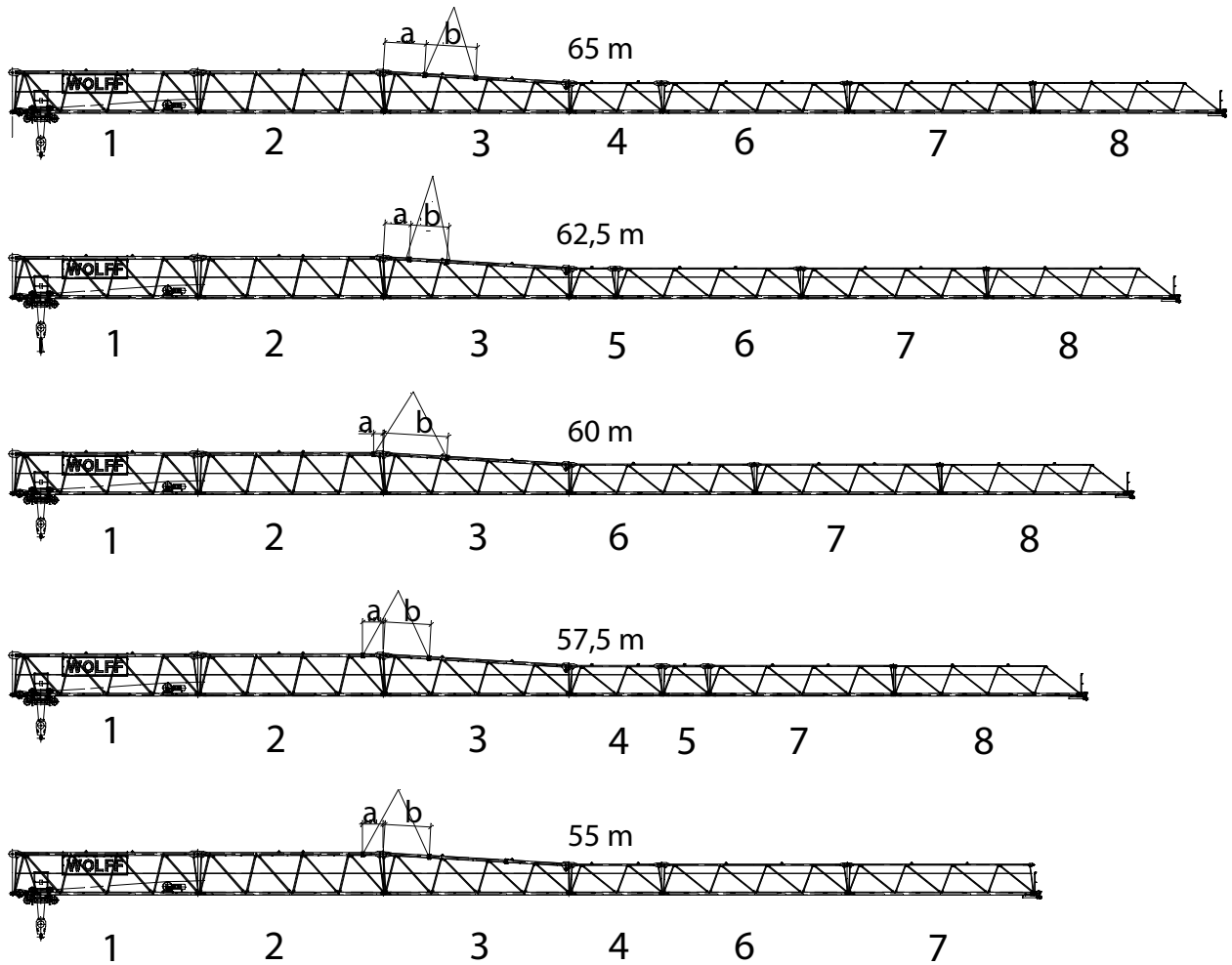
	NOTICE
	To install the snatch block within two sling ropes to DIN 3088 (Ø 8 mm x 1 m with shackle), attach it to the trolley, reeve in the mounting rope (Perlon, Ø 14 mm x 12 m) and secure it on the trolley.

Length of jib elements

Item	Length [m]
Slewing trolley jib element 1, 2, 3, 6, 7, 8	10.0
Trolley jib element 4	5.0
Trolley jib element 5	2.5
Rope swivel crossbeam	0.51

8 Assembly diagrams

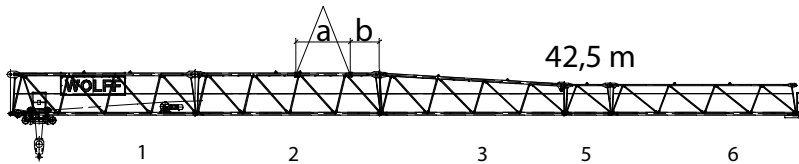
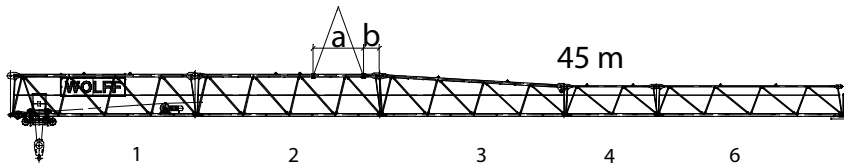
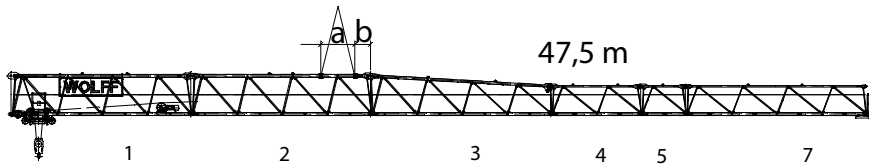
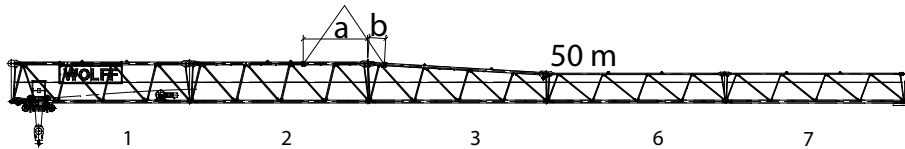
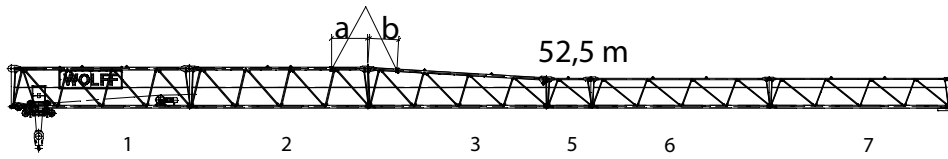
8.1.1 Laufkatzausleger- Anhängeplan 65,0 m bis 55,0 m



a	Maß a	b	Maß b
c	Maß c	X	Turmmitte

6031.8 clear	Auslegerlänge [m]				
Daten	65,0	62,5	60,0	57,5	55,0
a [m]					
b [m]					
c [m]					
Gewicht [kg]					

8.1.2 Laufkatzausleger- Anhängeplan 52,5 m bis 42,5 m

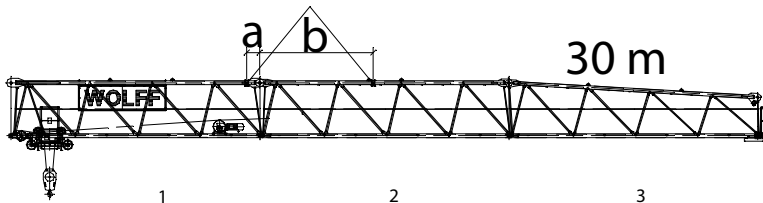
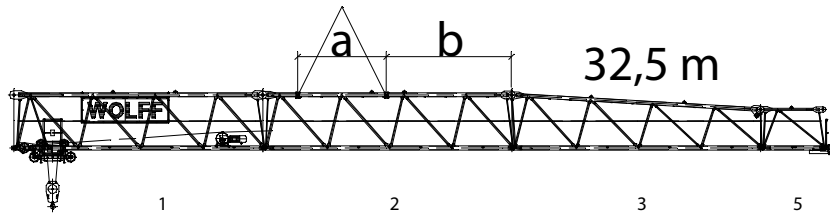
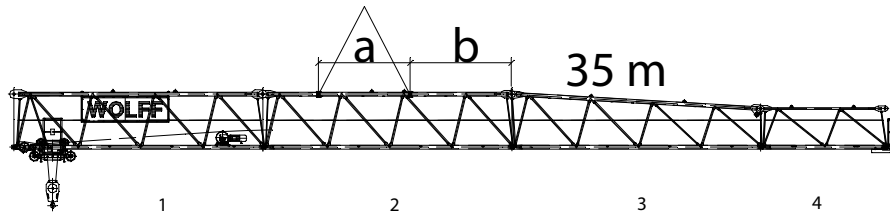
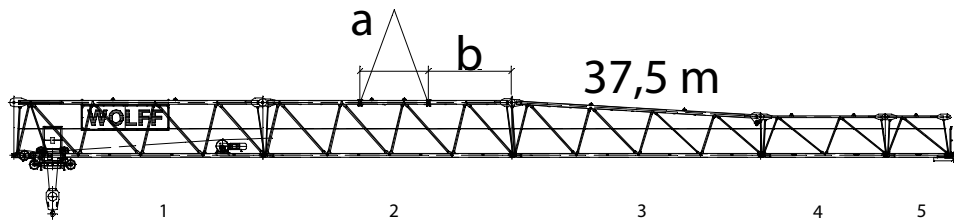
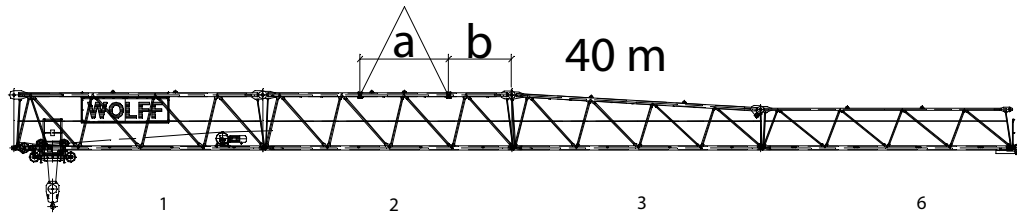


a	Maß a	b	Maß b
c	Maß c	X	Turmmitte

6031.8 clear	Auslegerlänge [m]				
Daten	52,5	50,0	47,5	45,0	42,5
a [m]					
b [m]					
c [m]					
Gewicht [kg]					

8 Assembly diagrams

8.1.3 Laufkatzausleger- Anhängeplan 40,0 m bis 30,0 m




a	Maß a	b	Maß b
c	Maß c	X	Turmmitte

6031.8 clear	Auslegerlänge [m]				
Daten	40,0	37,5	35,0	32,5	30,0
a [m]					

6031.8 clear	Auslegerlänge [m]				
Daten	40,0	37,5	35,0	32,5	30,0
b [m]					
c [m]					
Gewicht [kg]					

8 Assembly diagrams

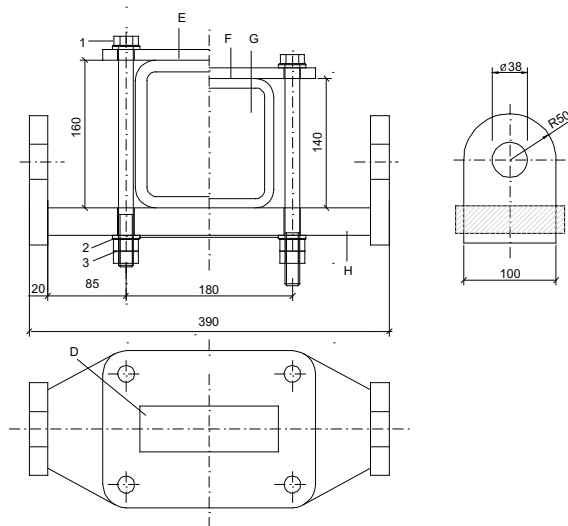
8.2 Trolley jib mounting rig

	NOTICE
	<p>For information on the arrangement of the mounting rig, refer to the attachment diagram.</p> <p>Two mounting rigs are required per slewing tower crane.</p>

Elements required for each mounting rig

Quantity	Item	Dimensions	Material
1	Mounting rig		
4	Hexagonal head bolt	M16 x 240	ISO 4017-8.8 galv.
8	HSFG washer	17	EN 14399 galvanized
8	Hexagonal nut	M16	ISO 4032-8 galvanized

Mounting rig



1	Hexagonal head screw	A	Mounting rig
2	HSFG washer	B	Top chord trolley jib
3	Hexagonal nut		

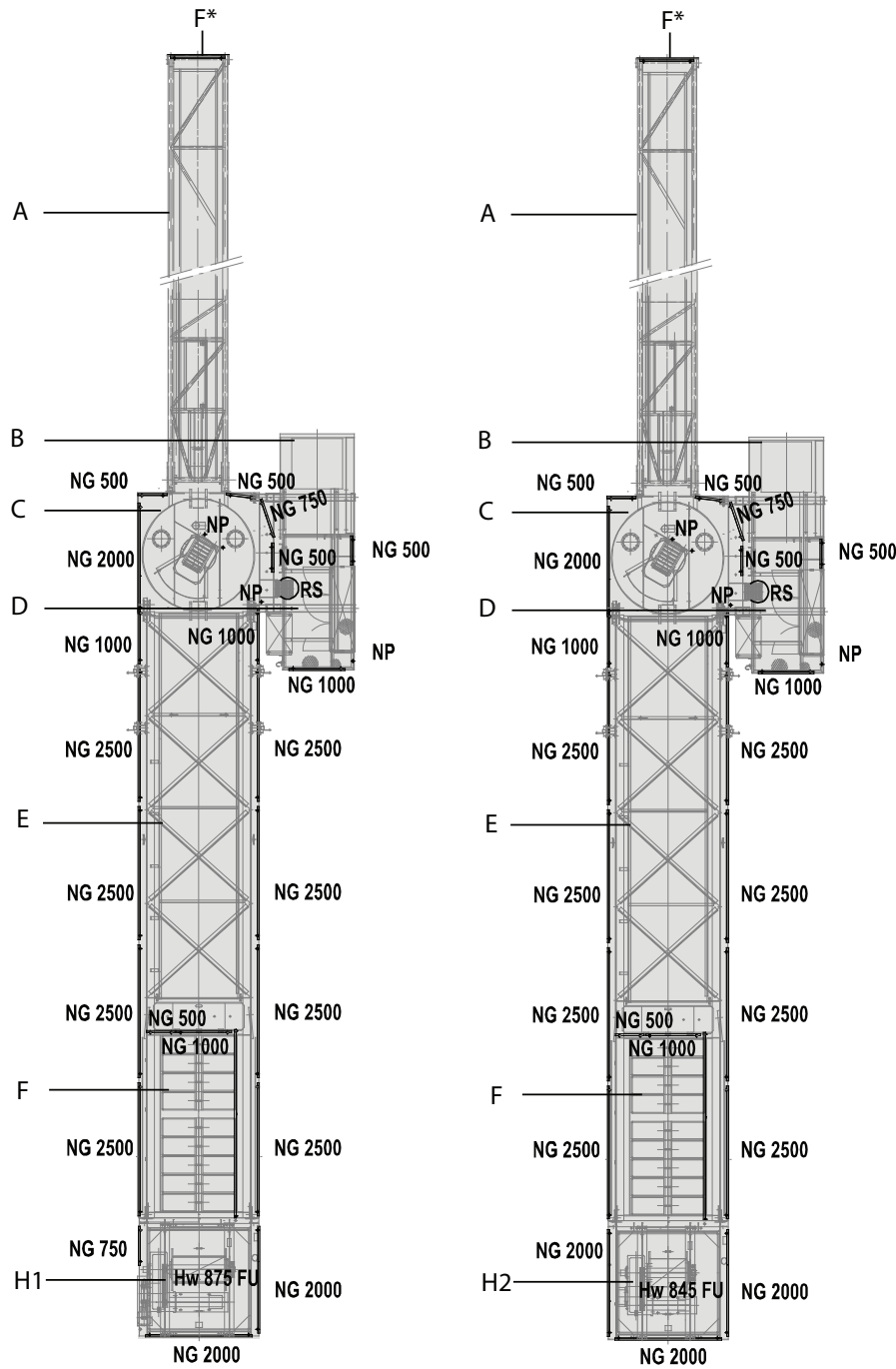
8.3 Arrangement of standard railings

8.3.1 Standard railings (NG) and accessories

Quantity *	Standard railings (NG)
3	Standard post (NP)
1	F * (flag pole mount)
5	Standard railing 500
2/ 1*	Standard railing 750
4	Standard railing 1000
3/ 4*	Standard railing 2000
8	Standard railing 2500
1	RS (hoop guard)
* HW875FU/ HW845FU	

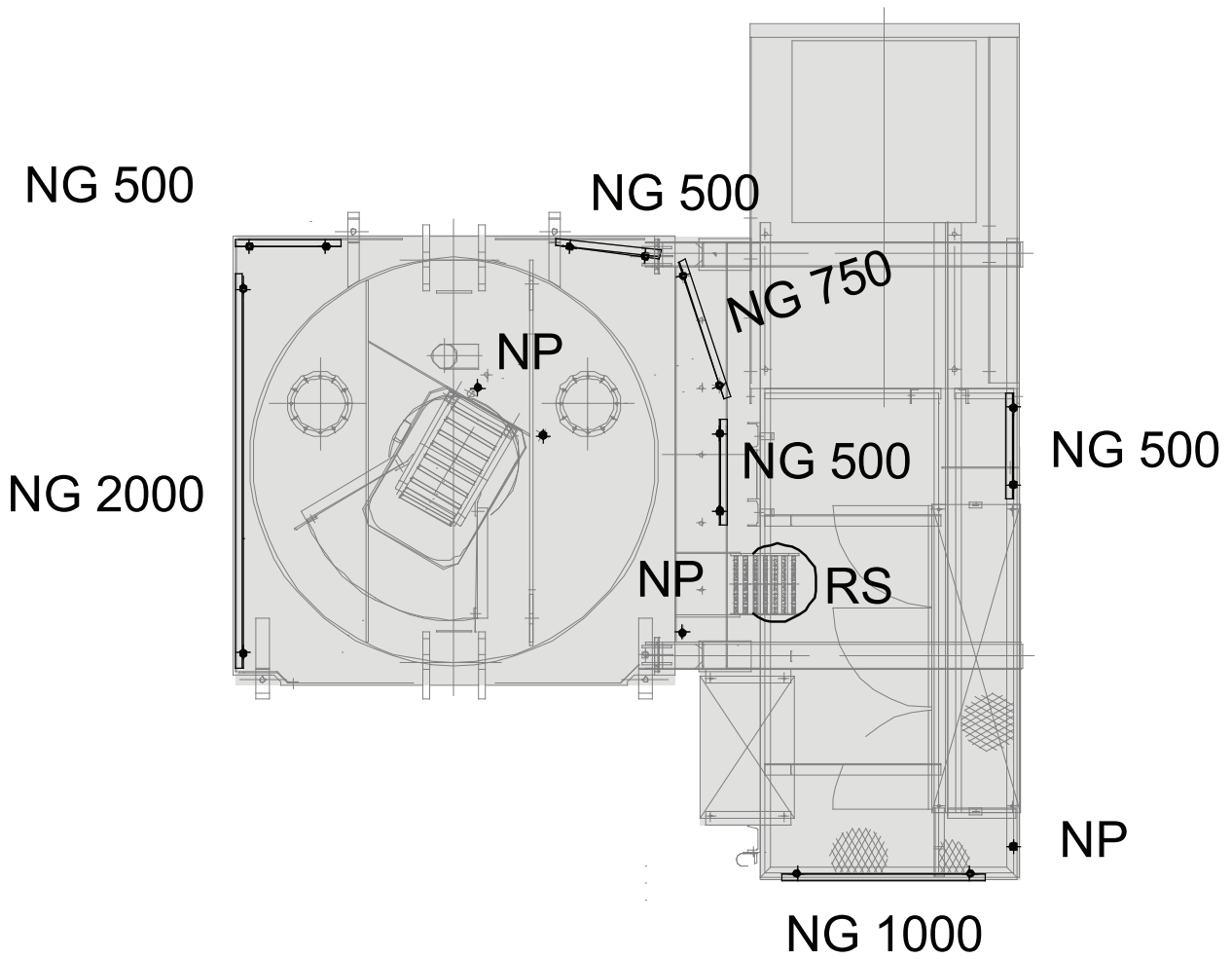
8 Assembly diagrams

8.3.2 Arrangement of standard railings

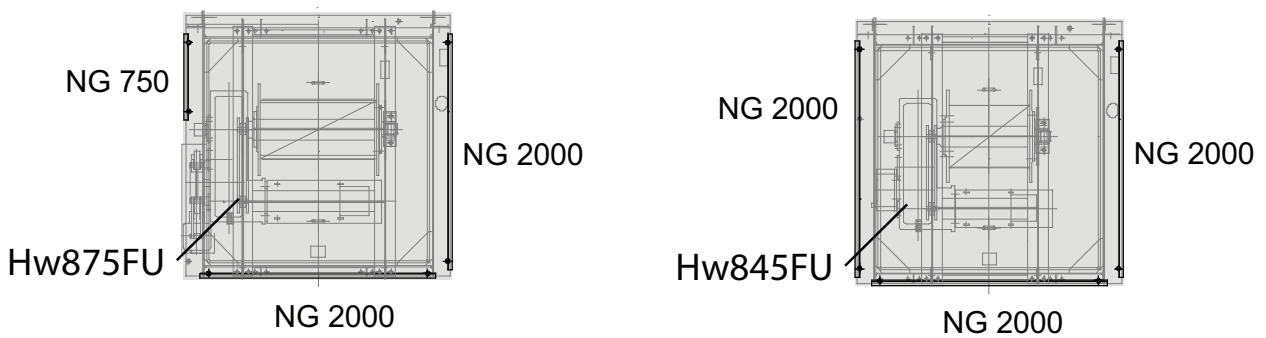


Arrangement of standard railings

A	Trolley jib	F	Counterweights
B	Driver's cab	H1	Hoist winch Hw875FU
C	Cat head pedestal	H2	Hoist winch Hw845FU
D	Control cabinet		



Arrangement of standard railings, tower head section







Arrangement of standard railings hoist winch

9 Suitable climbing devices



9 Suitable climbing devices

This section contains information on

- Outer climbing devices (KWH)
- Inner climbing devices (KSH)

	<p style="text-align: center;">NOTICE</p> <p>Details on the climbing device Always refer to the details in the documentation of the climbing device.</p>
	<p style="text-align: center;">NOTICE</p> <p>The operating radius specified is measured from the tower center and is to be considered a reference value. Exact balancing can be achieved by changing the operating radius with the tower elements or loads specified in the table.</p>
	<p style="text-align: center;">NOTICE</p> <p>Details for climbing balancing The climbing balancing details apply to the snatch block in maximum hook position.</p>
	<p style="text-align: center;">NOTICE</p> <p>If feasible, preferably operate your climbing device without balancing weight.</p>

9.1 Outer climbing devices

	<p style="text-align: center;">! DANGER</p> <p>Climbing device attached to the lower part of the tower head section lower part.</p> <p>Increased wind surface. The slewing tower crane may overturn.</p> <ul style="list-style-type: none">▶ Dismantle the climbing device after the climbing procedure is finished or lower the climbing device down on the ground or lower the climbing device down to the uppermost tower brace.
	<p style="text-align: center;">NOTICE</p> <p>Tower element on the transfer carriage</p> <p>The data on climbing balance was specified under the assumption that a tower element is on the transfer carriage.</p>

9 Suitable climbing devices

9.1.1 Outer climbing device KWH 20.3 / KWH 20.3.1

Climbing radius for the balancing weights

6031.8	Jib length [m]														
	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30
Without Weight	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UV 20 = 1.95 t	8.3	15.1	14.7	18.5	17.2	22.8	21.7	24.0	26.6	24.0	28.6	24.8	26.9	-	-
TV 20 = 3.05 t	-	10.2	9.9	12.8	11.8	16.1	15.3	17.0	19.0	17.0	20.5	17.6	19.2	22.2	21.2


9.1.2 Außenkletterwerk KWH 20.6 / KWH 20.6.1 / KWH 20.6.2

Climbing radius for the balancing weights


6031.8	Jib length [m]														
	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30
no weight	29.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UV 20 = 1.95 t	7.5	14.3	13.9	17.7	16.4	22.0	20.9	23.2	25.8	23.2	27.8	24.0	26.1	-	-
TV 20 = 3.05 t	-	9.6	9.3	12.2	11.2	15.5	14.7	16.4	18.3	16.4	19.9	17.0	18.6	21.6	20.5

9 Suitable climbing devices

9.2 Inner climbing devices

	NOTICE
	The data required and the instructions for tower assemblies with inner climbing device is available in the separate description of the inner climbing device.

DANGER! Observe the special tower combination for the inner climbing device.

	NOTICE
	Clamping forces for the inner climbing device (KSH) are specified based on a building height of < 250m and wind category C 25.

9.2.1 Inner climbing device KSH 20 SH

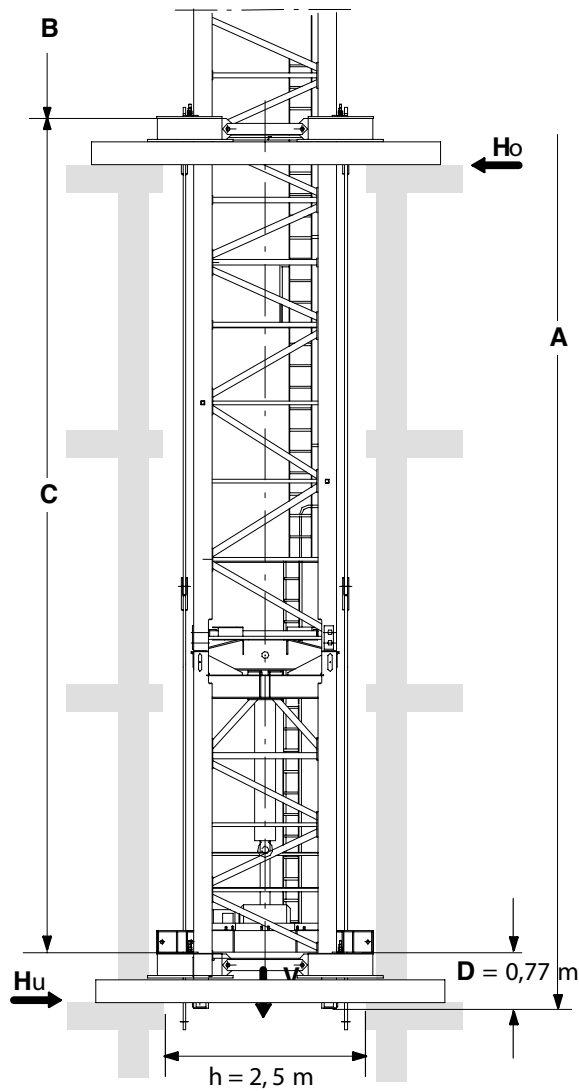
Tower combinations for slewing tower cranes with inner climbing device.

Item				
1	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	TVA 20.4	UV 20.4	UV 20.4	UV 20.4
8		TVA 20.4	UV 20.4	UV 20.4
9			TVA 20.4	UV 20.4
10				TVA 20.4
inner climbing device	KSH 20 SH	KSH 20 SH	KSH 20 SH	KSH 20 SH
Foundation anchors	FUA TYPE FS-156 / FUA 156S	FUA TYPE FS-156 / FUA 156S	FUA TYPE FS-156 / FUA 156S	FUA TYPE FS-156 / FUA 156S
Tower height [m]	46.5	51.0	55.5	60.0
Hook height (4 fall operation) [m]	47.6	52.1	56.6	61.1

Kletterausladung [m] für die Ausgleichsgewichte

6031.8	Auslegerlänge [m]														
	65	62,5	60	57,5	55	52,5	50	47,5	45	42,5	40	37,5	35	32,5	30
UV 20.4 = 2.05 t	39,3	46,0	44,3	48,0	46,7	-	-	-	-	-	-	-	-	-	-
TV 20.4 = 2.98 t	29,9	34,9	33,6	36,5	35,5	39,7	37,9	39,5	41,4	38,5	-	-	-	-	-
Gewicht = 5,00 t	19,3	22,6	21,7	23,6	23,0	25,7	24,5	25,5	26,8	24,9	27,1	24,6	25,5	27,4	26,1

9 Suitable climbing devices



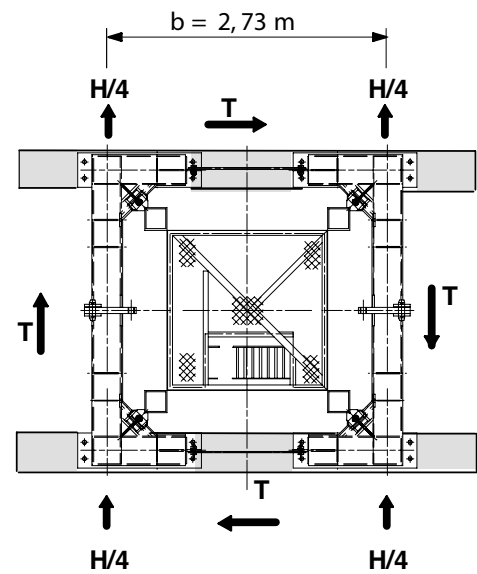
$$C_{\min} = 11,0 \text{ m}$$

$$C_{\max} = 14,0 \text{ m}$$

$$H_o = \frac{M}{C} + H$$

$$H_u = H_o - H$$

$$T = \frac{M_D}{2 \times b}$$



A	Tower height	C	Distance between guide frames
B	A-C-D		

Einspannkräfte in Betrieb

Einspannkräfte im Gebäude [kN] in Betrieb																
A [m]	60				55,5				51				46,5			
C [m]	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14
V	1132				1113				1094				1075			
Ho	340	310	290	270	320	290	270	250	300	270	250	230	280	260	240	220
Hu	300	270	250	230	280	250	230	210	260	240	220	200	240	220	200	180
T	52				52				52				52			

Einspannkräfte außer Betrieb

Einspannkräfte im Gebäude [kN] außer Betrieb																
A [m]	60				55,5				51				46,5			
C [m]	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14
V	100				981				962				943			
Ho	760	700	640	600	670	610	570	530	590	540	500	460	510	470	430	400
Hu	530	470	420	370	450	400	350	310	380	330	290	260	310	270	240	210
T	0				0				0				0			

10 Arrangement of counterweight blocks

10 Arrangement of counterweight blocks

L = 65 m	L = 62.5 m	L = 60 m	L = 57.5 m	L = 55 m
9 x 2.7 t	9 x 2.7 t	8 x 2.7 t	8 x 2.7 t	8 x 2.7 t
W = 28.0 t	W = 28.0 t	W = 25.3 t	W = 25.3 t	W = 25.3 t
L = 52.5 m	L = 50 m	L = 47.5 m	L = 45 m	L = 42.5 m
8 x 2.7 t	7 x 2.7 t	7 x 2.7 t	7 x 2.7 t	6 x 2.7 t
W = 25.3 t	W = 22.6 t	W = 22.6 t	W = 22.6 t	W = 19.9 t
L = 40 m	L = 37.5 m	L = 35 m	L = 32.5 m	L = 30 m
6 x 2.7 t	5 x 2.7 t	5 x 2.7 t	5 x 2.7 t	4 x 2.7 t
W = 19.9 t	W = 17.2 t	W = 17.2 t	W = 17.2 t	W = 14.5 t

Additional permanent counterweight for all jib lengths: 3.7 t

L	Jib length [m]	a	To the tower
G	Total weight [t]		Counterweight
	No counterweight		

WOLFFKRAN Group

Headquarter international:

WOLFFKRAN AG

Baarermattstraße 6

CH-6300 Zug

Switzerland

Phone +41 41 766 85 00

Fax +41 41 766 85 99

info@wolffkran.com

Manufacturing:

WOLFFKRAN GmbH

Austraße 72

D-74076 Heilbronn

Germany

Phone + 49 7131 9815 0

Fax + 49 7131 9815 355

info@wolffkran.de

WOLFFKRAN Werk Brandenburg GmbH

Frederik-Ipsen-Straße 5

D-15926 Luckau OT Alverno

Germany

Phone + 49 35456 674 0

Fax + 49 35456 674 200

info@wolffkran.de